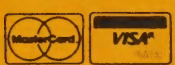
M2 ENTERPRISES
PRESENTS
A
NEW
CONCEPT IN
CROSS POLARIZED
ANTENNAS
FEATURING

MACHINED ANTENNA COMPONENTS
SUPER PATTERNS
TDT'S

(TOMORROWS DESIGNS TODAY)

M2 ENTERPRISES
7560 N. DEL MAR
FRESNO, CA 93711-6856
PH (209) 432-8873 FAX (209) 432-3059



2M-CP14

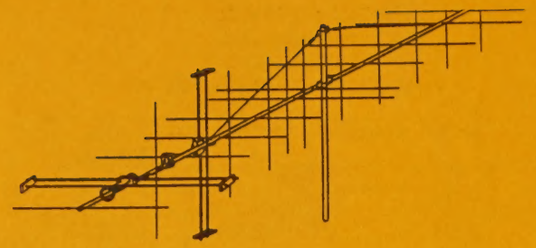
SPECIFICATIONS

Model number	2M-CP14
Frequency	143-148 mHz
Gain	10.3 dBd
Front to back	20dB
VSWR	1.3:1 typical
Feed impedance	50 Ohms unbalanced
Connector	'N' female
Power handling	1.5KW
Boom length/diameter	125.5"/1.0 inch
Number of elements	14
Mast size	1-1/2 inch
Wind area	1.1 sq. ft.
Weight	6.0 lbs
Shipping weight	8 lbs UPS OK

FEATURES

The 2MCP14 is a light, medium performance circularly polarized antenna designed to work across the two meter amateur band. Best match and gain are between 145 & 147 mHz optimized for the satellite band. Computer design techniques help keep spurious side lobes low down for optimum signal to noise ratios. This antenna features the same machined; sealed, driven element assemblies common to all M^2 Yagi antennas. This insures years of trouble free performance regardless of weather.

A 136R-14C and a 149T-14C model are also available for the ATS satellite users.



2M-CP22

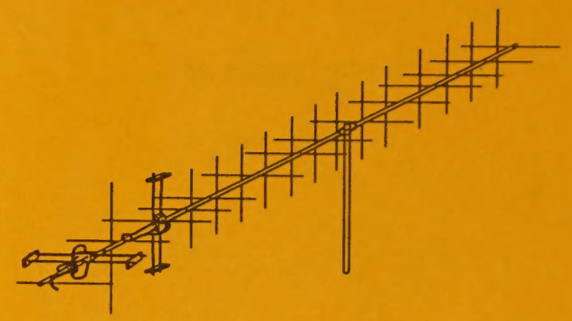
SPECIFICATIONS

Model number	2M-CP22
Frequency range	144 to 148 mHz
Gain	12.5 dBdc
Beamwidth	40 degrees
Polarity	Circular, RHC or LHC
Front to back	25 dB typical
VSWR	1.4: max.
Feed impedance	50 Ohms unbalanced
Connector	'N' female
Power handling	1.5 KW
Boom length	223"
Boom diameter	1-1/2" tapering to 1"
Parasitic elements	20, 3/16" alum. rod
Wind area	2.5 sq. ft.
Mast size	1-1/2" to 2-1/8"'
Weight	12.5 lbs.
Shipping weight	14 lbs, UPS

FEATURES

This cross-polarized yagi was computer designed for the serious OSCAR user. Side and back lobes are significantly better than any previous design. The average side and back lobe power has been reduced by approximately 10 dB enhancing signal to noise ratio and putting all your power where it will do the most good. The 2MCP22 is ideal for general use over the ENTIRE two meter band from FM to SSB and CW DX. Arrays of two or more will even permit moonbounce contacts using the old reliable passive repeater in the sky.

Sealed, weather tight driven element assemblies and phasing elements are centered in the boom for minimum interaction and good ellipticity.Elements are 3/16 rod supported with black polyethylene button insulators and stainless steel keepers. The 2MCP22 is our finest circularly polarized antenna. Even if you have used CP antennas before, we are confident you will be impressed with the 2MCP22 from the moment you open the box until you've worked DXCC and beyond!



436-CP30

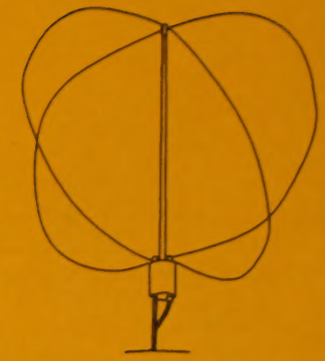
SPECIFICATIONS

Model number	436-CP30
Frequency range	430-440 mHz
Gain	14.5 DBDC
Beamwidth	30 Degrees
Polarity	Circular, RHC or LHC
Front to back	22 DB Typical
Ellipticity	1.5 1.5 DB Typical
VSWR	1.4:1 Max
Feed impedance	50 OHMS, unbalanced
Connector	'N' Female
Power handling	600 Watts
Boom Length/Dia	117 inches/1" Diameter
Parasitic elements	3/16" Rod thru Boom insul.
Wind area	1 Sq Ft.
Mast size	1-1/2-2 inch
Weight	5 Lbs.
Shipping weight/size	7 IBS 2X4X60" UPS OK

FEATURES

The 436-CP30 is practical size yet high performance circular polarized antenna with a remarkably clean pattern.The pattern is important in order to match the antennas noise temperature with todays low noise preamps. This antenna is ideal for satellite work but is also excellent for terrestrial use like ATV repeater operation and long haul tropo DX.

Sealed, weather tight driven element assemblies and phasing elements mean low maintenance and long term peak performance. Elements are centered to minimize element interaction and maintain good ellipticity. Elements are insulated from the boom and locked in place with stainless keepers.



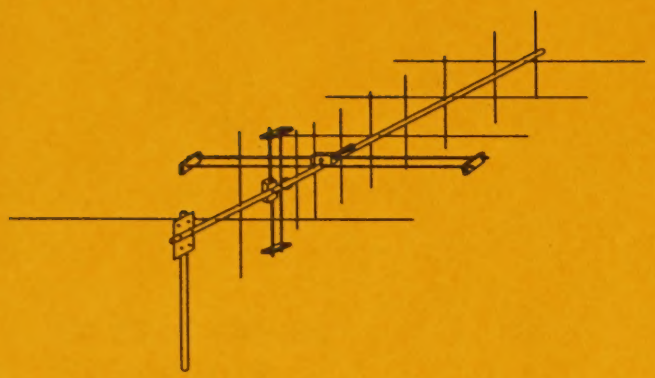
EB-144 & EB-432 EGGBEATER

SPECIFICATIONS

	EB-144	EB-432
Model number	144-148	EB-432
Spec. Freq range	144-148 mHz	400-450 mHz
Usable Freq. rng	135-150	400-470
Gain	1.0 dBd	1.0 dBd
Impedance	50 Ohms	50 Ohms
VSWR	1.5:1	1.5:1
Pattern	Omni dir at horiz circ. off top	Omni dir at hoiz circ. off top
Pwr Hlg. max	1 Kilowatt	.5 Kilowatt
Mounting	3/8-24 m. thread	3/8-24 m. thread
Connector	SO-239	SO-239
Size	34" HX28" W	13.5"HX9.5W
Wind speed max	100 mph	100 mph
Mtrls:Loops	17-7 stainless	17-7 stainless
Loop sprt	3/8" fiberglass	3/8 " fiberglass
Body	Delrin & alum	Delrin & alum
Hardware	Stainless &Brass	Stainless &Brass

FEATURES

The EB-144 "EGGBEATER" offers exciting new performance characteristics for both fixed and mobile operations. The EGGBEATER produces smooth omnidirectional HORIZONTAL polarity at the horizon. Above the horizon, the pattern transforms to RIGHT HAND CIRCULAR off the top making it a natural for OSCAR satellite use. By spacing the EGGBEATER 10 to 12 inches above a metal surface, the circular lobe increases by 6 dB, producing a hemispherical pattern. No rotation or steering is required. For mobile, base , net control, contest or field day operation; elevating the EGGBEATER to 40 inches or more over a metallic surface improves the horizontal radiation by 6 dB. This allows communications in all directions.



2M5-440XP

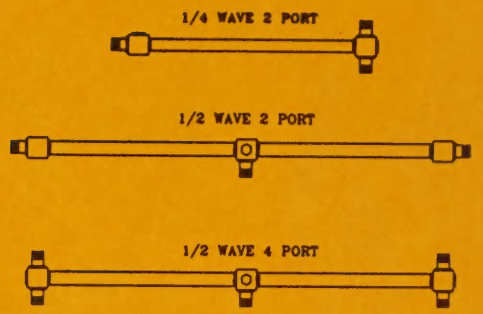
SPECIFICATIONS

Model number	2M5/440-10XP
Frequency	144-148/430-450 mHz
Gain	9.0 and 12.0 dBd
Front to back	15 and 20 dBd
Feed impedance	50 Ohms unbalanced
VSWR	1.3:1
Connectors	'N' female, both
Power capability	750 watts, both
Boom length	59.375" and 57.962"
Mounting	rear or center
Mast size	2 inch nominal
Polarity	Your choice
Wind load	1.1 sq ft
Wind survival	100 mph
Weight	5.5 Lbs
Shipping weight	7.0 Lbs UPS

FEATURES

This antenna was originally designed to link repeaters and remote bases utilizing both 2 meters and 440 mHz. Rear mountable and cross- polarized for more cross band isolation, it is ideal for linking. It also works well on the OSCAR frequencies and is a good general purpose. DUAL BAND antenna. Recently with PACKET users finding horizontal polarization better on 2 meters, it has become even more useful.

POWER DIVIDERS



These power dividers, used with standard 50 Ohm cable, do the impedance matching required when feeding 2 or more antennas.

M2 power dividers are made of round aluminum tubing welded into machined aluminum junction blocks. 'N' female connectors are threaded in and sealed with 'O' rings. Teflon discs support the copper center conductor. Threaded, 'O' ringed access covers allow inspection or repair should it ever be required.

The two port dividers are either quarterwave or half wave long. The four, six and eight way dividers are half wave. Of course we can usually do special impedance conversions as well; such as 75 Ohm versions of the above and 75 t o 50 Ohm versions.

The following are made in both 50 and 75 Ohm versions for 144 and 432 mHz. For 50 mHz only
The two port versions available
TWO PORT QUARTERWAVE DIVIDER
FOUR PORT HALF WAVE DIVIDER
SIX PORT HALF WAVE DIVIDER
EIGHT PORT HALF WAVE DIVIDER
SPECIALS

M^2 ENTERPRISES
PRODUCT PRICE LIST

7560 N. DEL MAR
FRESNO, CA 93711
PH (209) 432-8873 FAX (209) 432 3059

MODEL NUMBER	DESCRIPTION	SUG. RETAIL
	HF	
10-30LPY	10-30 mHz	$899.00
20M4	4 Element	$649.00
18M3	3 Element	$249.00
15M4	4 Element	$369.00
10M4	4 Element	$169.00
10M7	7 Element	$499.00
	6 METERS	
6M5	5 Element	$149.00
6M7	7 Element	$229.00
6M2WL	9 Element	$379.00
6M2.5WL	11 Element	$449.00
	2 METERS	
EB-144	HORIZ- OMNI	$119.00
2M7	7 Element	$105.00
2M12	12 Element	$129.00
2M5WL	17 Element	$169.00
2M18XXX	18 Element	$219.00
2M18XXXkit	KLM Conv. Kit	$ 69.00
2MCP14	14 Element Circ.	$149.00
2MCP22	22 Element Circ.	$225.00
2M6WLHD	19 Element HD	$379.00
2M5-440XP	5 Ele /10 ELe on 440	$149.00
	220	
220-7WL	23 Element	$189.00
	70 CM	
EB-432	Horiz Omni	$109.00
420-50-11	11 Ele full band	$ 99.00
440-18	Multi- Use	$109.00
436-30CP	30 Ele OSCAR	$229.00
432-9WL	28 Element	$149.00
432-13WL	39 Element	$229.00
MT-3000	Elev. Rotor HD	$669.00
MT-4000	Elev Rotor XHD	$899.00
ORION	AZ Rotor XHD	$899.00
	ACCESSORIES	
6M 2 port	2 WY 1/4 WV PD	$ 79.00
2M 2 PORT	2 WY 1/4 WV PD	$ 59.00
2M 4 PORT	4 WY PWR DIV	$ 79.00
70CM 2 PORT	2 WY PWR DIV	$ 59.00
70CM 4 PORT	4 WY PWR DIV	$ 69.00
VHF-50	'N' CONN PH CB	$ 39.00
UHF-50	'N' CONN PH CB	$ 35.00